CLAIM AMENDMENTS

Claims 1-10, 12-14 and 16 are pending. Claims 1 and 12 are amended, and claims 11 and 15 are canceled herein.

1. (Currently Amended) A system for providing a private mobile communication service, comprising:

a public base transceiver station disposed within a public/private common cell area and providing a public mobile communication service;

a private base transceiver station disposed within said public/private common cell area and providing a private mobile communication service; and

a first mobile station establishing a radio communication channel with [[the]] both the public base transceiver station and the private base transceiver station, when the first mobile station moves from a public-only cell area to said public/private common cell area, said first mobile station determining whether an identifier indicating a request for the private mobile communication service is added to a dialed phone number entered by a user, establishing a traffic channel with the private base transceiver station when it is determined that the identifier is added to the dialed phone number, and establishing a traffic channel with the public base transceiver station when it is determined that the identifier is not added to the dialed phone number, wherein the first mobile station sends a signal indicating that the first mobile station is busy to the public base transceiver station when a traffic channel request signal is received through the public base transceiver station while the first mobile station is provided with the private mobile communication service through the private base

transceiver station..

2. (Original) The system as set forth in claim 1, further comprising:

a private communication service apparatus verifying whether the first mobile station is a subscriber to the private mobile communication service, when a request for establishing a radio communication channel is received by the private base transceiver station from the first mobile station, establishing a radio communication channel, to enable telephonic communication, with the private base transceiver station when it is verified that the first mobile station is a subscriber to the private mobile communication service, and establishing a traffic channel over a network to a called party corresponding to the dialed phone number, if a traffic channel request is received from the first mobile station with which the radio communication channel is established.

- 3. (Original) The system as set forth in claim 2, said network being a public mobile communication network through a public switched telephone network when said called party corresponds to a second mobile station located in the public-only cell area.
- 4. (Original) The system as set forth in claim 2, said network being a wired network when said called party corresponds to an extension phone connected to a private branch exchange within said private communication service apparatus.
 - 5. (Original) The system as set forth in claim 2, said network being a public mobile

communication network accessed by way of a Public Switched Telephone Network

(PSTN)/Integrated Services Digital Network (ISDN), when said called party corresponds to a mobile

station not registered as belonging to the public/private common cell area.

- 6. (Original) The system as set forth in claim 2, said network being a private wireless network by way of said private base transceiver station, when said called party corresponds to a second mobile station disposed within said public/private common cell area and registered as belonging to said public/private common cell area.
- 7. (Original) The system as set forth in claim 1, wherein the identifier indicating a request for the private mobile communication service is a character # or a character *.
 - 8. (Original) The system as set forth in claim 1, said first mobile station comprising:
- a private network control unit for performing communication with said private base transceiver station using a private mobile communication service-only frequency channel by controlling a private network Radio Frequency (RF) unit, when the first mobile station is operated as a private network mobile phone when it is determined that the identifier is added to the dialed phone number; and
- a public network mobile phone unit utilizing a main control unit for performing communication with said public base transceiver station using a public mobile communication service-only frequency channel by controlling a public network Radio Frequency (RF) unit, when

the first mobile station is operated as a public network mobile phone when it is determined that the identifier is not added to the dialed phone number.

- 9. (Original) The system as set forth in claim 8, said first mobile station further comprising an antenna matching unit that receives RF signals in different frequency bands of private and public mobile communication services-only channels, respectively, through an antenna, separates the RF signals, and matches the separated RF signals with the corresponding private or public network Radio Frequency (RF) units, and transmits RF signals from the private or public network Radio Frequency (RF) units through the antenna.
- 10. (Original) The system as set forth in claim 2, the private communication service apparatus comprising:

a private branch exchange establishing a traffic channel with a local extension telephone through a wired local network, when a request for establishing a traffic channel with the local extension telephone is received from the first mobile station;

the private branch exchange establishing a traffic channel with a general telephone through a public switched telephone network, when a request for establishing a traffic channel with a general telephone is received from the first mobile station;

the private branch exchange establishing a traffic channel over a private mobile communication network, when a request for establishing a traffic channel with a mobile station of another service subscriber located in the public/private common cell area is received from the first

mobile station;

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a private base station controller verifying whether the first mobile station is a subscriber to the private mobile communication service, when the first mobile station requests the private base station controller to establish a radio communication channel through the private base transceiver station; and

the private base station controller establishing a radio communication channel, when the first mobile station is verified to be a subscriber to the private mobile communication service;

the private base station controller transmitting traffic channel request signals received through the private base transceiver station to the private branch exchange; and

the private base station controller establishing a traffic channel with a mobile terminal of another service subscriber through the private base transceiver station in response to a request for establishment of a traffic channel with the mobile terminal of the service subscriber, the request being received from the private branch exchange.

11. (Canceled)

12. (Currently Amended) A method of processing a call using a private mobile communication service system, comprising steps of:

when a mobile station moves from a public-only cell area to a public/private common cell area, establishing a radio communication channel between said mobile station and a public base transceiver station disposed within said public/private common cell area and providing a public

mobile communication service, while also establishing another radio communication channel
between said mobile station and a private base transceiver station disposed within said public/private
common cell area and providing a private mobile communication service;

determining if there is a call request, indicative of a call to a called party, by detecting a dialed phone number input by said mobile station;

checking for an identifier, indicating a request for said private mobile communication service, added to said phone number;

establishing a traffic channel between said mobile station and said public base transceiver station to receive the public mobile communication service, when the identifier is not added to the phone number; [[and]]

establishing a traffic channel between said mobile station and said private mobile communication service system to receive the private mobile communication service, when the identifier is added to the phone number; and

sending a signal indicating that the mobile station is busy to the public base transceiver station when a traffic channel request signal is received through the public base transceiver station while the first mobile station is provided with the private mobile communication service through the private base transceiver station.

13. (Original) The method according to claim 12, wherein the identifier indicating a request for the private mobile communication service is a character # or a character *.

	14. (Original)	The method as set	forth in claim 12,	further comprising step	s of
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verifying whether the mobile station is a subscriber to the private mobile communication service, when a request for establishing a radio communication channel is received by the private base transceiver station from the mobile station;

a private communication service apparatus and the mobile station when it is verified that the first mobile station is a subscriber to the private mobile communication service; and

establishing a traffic channel over a network to the called party corresponding to the dialed phone number, if a traffic channel request is received from the mobile station with which the radio communication channel is established.

15. (Canceled)

16. (Original) The method according to claim 14, the step of establishing a traffic channel over a network to a called party comprising steps of:

determining, when the called party is a called mobile terminal, whether the called mobile terminal is registered in said private communication service apparatus as a subscriber of said private mobile communication service;

switching the call to said private base transceiver station through a switch of a private branch exchange, when it is determined that the called mobile terminal is registered in said private communication service apparatus as a subscriber of said private mobile communication service, to

enable telephonic communication between the mobile station and the called mobile terminal over a private wireless network; and

switching the call to a public switched telephone network through the switch of the private branch exchange, when it is determined that the called mobile terminal is not registered in said private communication service apparatus as a subscriber of said private mobile communication service and establishing a traffic channel over the public switched telephone network and a public mobile communication network to enable telephonic communication between the mobile station and the called mobile terminal.